

Amendment to the Claims

Please cancel Claim 16.

Please amend Claims 1-4, 6-8, 10-15 and 17 as follows:

1. (Currently amended) An optical inspection system comprising:

- a) a beam splitter having at least a first, second and third ports;
- b) a source of illumination connected to a first port of the beam splitter;
- c) a camera connected to a second port of the beam splitter;
- d) an inspection area facing the third port of the beam splitter; and
- e) a light trap ~~connected to~~ receiving extraneous light from the beam splitter, the light trap ~~having~~ comprising a wall surrounding an angled surface and an opening into a cavity, configured such that a portion of the extraneous light impinging on the angled surface is diverted through the opening into the cavity.

2. (Currently amended) The optical inspection system of claim 1 wherein the ~~light trap comprises~~ the wall has a cylindrical shape ~~a cylinder with a conical member disposed therein.~~

3. (Curently amended) The optical inspection system of claim [2] 1 wherein the angled surface is ~~conical member has a~~ parabolic ~~outer~~ surface.

4. (Currently amended) The optical inspection system of claim 1 wherein the

extraneous light comprises light from the source of illumination transmitted through the beam splitter without reflection at the beam splitter ~~the light trap has an aperture positioned to receive light in a first direction and the angled surface is angled to reflect light from the first direction into the cavity.~~

5. (original) The optical inspection system of claim 1 wherein the angled surface is made of light absorbing material.

6. (Currently amended) The optical inspection system of claim I wherein ~~the cavity is bounded by walls and the~~ wall comprises ~~walls of the cavity and the walls of the cavity are made of~~ light absorbing material.

7. (Currently amended) The optical inspection system of claim 1 wherein the wall comprises ~~cavity has interior walls and the interior walls of the cavity and the angled surface are made of~~ anodized aluminum.

8. (Currently amended) The optical inspection system of claim 1 wherein the angled surface is made of a reflective material ~~and is positioned to reflect light into the cavity, and wherein the cavity is bounded by walls made of light absorptive material.~~

9. (original) The optical inspection system of claim 1 wherein the light trap comprises a plurality of angled surfaces and a plurality of cavities.

10. (Currently amended) An optical inspection system comprising:

- a) a source of illumination emitting light in a first direction;
- b) a mirror having a reflective surface positioned at an angle transverse to

the first direction;

- c) an inspection area illuminated by light reflected from the mirror;
- d) a camera facing the inspection area; and
- e) [a] means for absorbing extraneous light from the source of illumination passing through the mirror, said means being positioned on a side of the mirror opposite the source of illumination and comprising a wall surrounding an angled surface and an opening into a cavity, configured such that a portion of said extraneous light impinging on the angled surface is diverted through said opening into said cavity.

11. (Currently amended) The optical inspection system of claim 10 wherein the ~~means for absorbing extraneous light comprises a surface angled~~ surface is parabolic to reflect extraneous into a cavity.

12. (Currently amended) The optical inspection system of claim 11 wherein the ~~cavity is bounded by walls and the walls are made of wall~~ comprises light absorptive material.

13. (Currently amended) The optical inspection system of claim 11 wherein the ~~means for absorbing extraneous light comprises a surface having a plurality of projections formed thereon, and wherein the angled surface is one of a plurality of angled surfaces each provided on one of the projections, each projection have a surface angled with respect to the direction of travel of extraneous light passing through the mirror.~~

14. (Currently amended) The optical inspection system of claim 11 wherein the

angled surface is a surface of ~~means for absorbing extraneous light includes~~ a cone.

15. (Currently amended) The optical inspection system of claim 14 wherein the angled surface comprises ~~cone has an outer surface made of~~ light absorbing material.

16. (Canceled).

17. (Currently amended) The optical inspection system of claim 10 wherein the angled surface comprises ~~means for absorbing extraneous light comprises~~ a reflective surface ~~reflecting extraneous light away from the mirror.~~

18. (original) The optical inspection system of claim 10 additionally comprising a computer connected to the camera.

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